AGORO CIMS, DOS PR SONSPILISTRI DSILIPPA

AD/Cycle Promises Mix-and-Match Development Tools



MARTIN

gies and tools required to retool information systems With the spectrum of incom-JAMES

patible computer-aided software engineering (CASE) tools currently topping

This is the

the 200 mark, it's nearly impossible to share design information among diverse products. To overcome these limitations and allow developers to mix and match assorted tools, it's essential that CASE vendors subscribe to a common standard for design information.

CASE tools accept design information in the form of diagrams, analyze the information for logical errors and then store the design information in a data dictionary or repository. Today, howev-er, each vendor stores information within its own repository differently; conse quently, there are hundreds of ways to represent data-flow diagrams.

This situation is about to change as a result of IBM's announcement last September of its AD/Cycle repository, which specifies a standard way of defining design information in the form of a common meta-data model. The metadata model offers a standard representation for the information contained in data-flow, decomposition, entity-relation-

ship and other diagrams.

To date, 47 vendors have announced that they will reimplement their CASE repositories for AD/Cycle compliance. Once this happens, developers will be presented with a "software backplane' environment, which will let CASE tools from multiple vendors easily share design information.

This software-backplane environment is illustrated in the accompanying fig-ure: A variety of front-end CASE tools back-end code generators and support tools all share information via the common AD/Cycle repository standard.

able load modules.

Compliance with a common repository of design information, as defined by AD/Cycle, will permit organizations to select CASE tools that are the "best of the breed," or tools that best support a specific portion of the development life cycle. Eventually, the hope is that

code generators to produce applications quickly in C, COBOL, Ada and other source languages

Unfortunately, this era of "plug-and-play" CASE tools is still off in the future While most important CASE tool vendors have pledged compatibility with AD/ Cycle, these products are still not available and are not expected to surface until late this year and throughout 1991.

To support the entire applications-development life cycle today, an organization must purchase an integrated set of CASE tools from a single vendor. However, there are only a handful of vendors selling integrated CASE tools.

Once products appear that conform to the AD/Cycle repository standard and are compatible with the services provided by IBM's Systems Application Architecture (SAA), organizations can begin developing true cooperative-processing applications. This type of application will support the distribution of both process and data throughout a network of computers

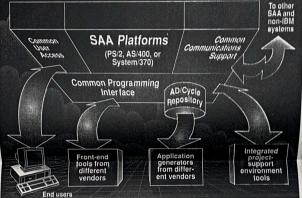
As shown in the figure, the AD/Cycle environment provides a set of SAA serenvironment provides a set of SAA ser-vices, including a common user inter-face, a common programming interface, a common communications interface and common repository services. Next week, I will discuss the features users should look for in a CASE tool to obtain the maximum return from an in-

vestment in CASE technology.

The concepts embodied in this article are described in the CASE volume in The James Martin Report Series. For more information on this volume, call (617) 639-1958. For information on seminars, contact (in the United States and Canada) Technology Transfer Institute, 741 10th St., Santa Monica, Calif. 90402 (213) 394-8305. In Europe, contact Savant, 2 New St., Carnforth, Lancs., LA5 9BX United Kingdom (0524) 734 505.

AD/Cycle Application-Development Environment

Objective Is To Let Developers Take Advantage of SAA-Compliant CASE Tools from Different Vendors; All Tools Share a Common Repository



Front-end tools, which feed data into the repository, could include planning, analysis and design workbenches from a variety of CASE vendors. Back-end tools, which extract specification information from the repository to perform specific tasks, could consist of sourcecode generators for COBOL, C and

users will mix and match tools from multiple vendors to support specific design and implementation requirements.

To this end, an organization might select one CASE tool for database design, another to support strategic planning tasks, and yet another to handle analysis and design operations, in addition, they could choose from a wide range of

Ada, or modules that generate execut-Micro Focus COBOL/2 Workbench

We're very proud of COBOL/2 Workbench. And we're very gratified at achieving a weighted score of 9.6 when measured appropriate buyer preferences in a recent PC Week review. From our mainframe COBOL compatibility features to our easy-to-learn, function key driven menu system, Micro Focus COBOL/s

Workbench is "equipped to support the experienced developer" making a transition from terminals to workstations for programming and maintenance tasks.

And there's more ..."Micro Focus belies COBOL's mainframe heritage with the artful design of the Workbench environment."...
and "Micro Focus' debugger, the ANIMATOR, lives up to its name with a leigant displays that trace execution through structural diagrams as well as through highlighted source code."

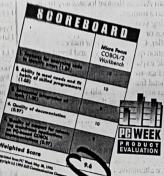
COBOL/2 Workbench is a "superb interactive environment" and "professionally crafted," according to a recent product review.

If you or your organization want to improve programmer productivity, bush re-engineer existing COBOL applications for new needs, or develop high performance, easy to maintain business applications for PCs, LANs, or an in mainframes, give us a call at Micro Focus.

Is a Hit!

We sell "Better Way of Programming" solutions.

MICRO FOCUS A Better Way of Programming " The Add The I



Call Micro Focus today at 1-800-872-6265 and request a reprint of the entire PC Week review.